



## **AGC/WSDOT ROADWAY TEAM**

### **Meeting Minutes: January 17, 2008 Meeting**

#### **Attending:**

X	Frank Scarsella	X	Mike Bradley	X	Bill Grady
	Scott Stephens		Bob Glenn	X	Dan Glover
X	Tyson Patrick		Dan Howell		
X	Jim Spaid	X	Derek Case	X	Mike Morishige
X	Gil McNabb		Ken Stone	X	Bob Romine
X	Paul Bennett	X	Casey Liles		Kurt Williams
X	Alex Nguyen				

#### **Introductions**

#### **Minutes of January 17, 2008 meeting:**

#### **Minutes of other Team Meetings:**

The meeting notes for the from the last AGC Roadway Team meeting held on September 20, 2007 were passed out and briefly reviewed. There were no comments or corrections.

The minutes of the November 16, 2007 Administration Team meeting were passed out. Several members expressed interest in the opportunity to review a proposed change to the Weighing specification 1-09.2 currently in review by the admin team. Bill Grady will send an email request to Jim Spaid and Craig McDaniel.

The minutes of the October 19, 2007 Structures Team meeting were passed out. There were no comments.

#### **Old Business**

**Ecology Filter Drain** - Jim Spaid introduced Alex Nguyen of WSDOT HQ Hydraulics, who is working on details and specifications for Ecology Filter Drains (EFD). Jim and Alex explained that WSDOT is pursuing the use of ecology filter drains (previously known as ecology embankment) in an effort to achieve water quality treatment of roadway runoff as required by the DOE. The ecology filter drain can meet this need without requiring the potentially expensive alternative of purchasing additional right of way for ponds or other off road structures.

Alex passed around copies of a proposed specification and details. He explained that there are three proposed types of EFD, side slope with no underdrain, sideslope with an underdrain, and median with an underdrain. He is undertaking this effort in order to address some of the shortcomings of previous designs and take advantage of some of the lessons learned from previous experience. The new specifications and details, once finalized, will be submitted to DOE for their approval and use in future contracts.

Bill Grady asked about the use of filter fabric to separate the drain pipe and rock from the ecology mix since these two items of work are often performed by separate subcontractors. Tyler expressed concern about the availability of some of the mix products. Jim and Alex explained that the WSDOT HQ lab had done a lot of research into these materials (lime, gypsum, and perlite) and the spec was written to ensure these were commercially available in adequate quantity – (agricultural grade products).

Concern was expressed regarding the material that will be excavated to accommodate the EFD. Construction requirements need to be added that indicate that the material is to be hauled off the project. In many cases, this material will be part of the embankment material that have been imported to the project, and has been compacted and stabilized as part of erosion control. Frank Scarsella suggested that there should be a limitation on the amount of trench that can be opened ahead of the backfill work, similar to the limitations on trenching for drainage or water mains.

Paul Bennett and others expressed concern about the completed shoulder being recoverable by errant vehicles. The new spec calls for 3/8" to #10 mineral aggregate with a minimum of two fractured faces. This should 'lock up' and provide a more stable base than previous designs.

Mike Morishige pointed out the need for designers to review the costs and benefits of using EFDs versus other potential water quality BMPs for a specific site as this will be expensive.

A discussion of the measurement and payment specifications ensued. The proposed specification included measurement by the square yard in place. Following discussion, it was agreed that the recommended measurement and payment was 1) by CY neat line for the ecology mix, 2) by CY neat line for the soil mix in the vegetated filter strip, 3) by linear foot for the underdrain.

## **New Business**

**Compost Amended Vegetated Filter Strip** – Alex presented a proposed specification for Compost Amended Vegetated Filter Strip (CAVFS). It is an alternative to the EFD for a roadside water quality BMP. A proposed specification and detail were distributed to the group. Following discussion, it was agreed that instead of the 50/50 CSTC and compost mixture, that the mix allow blending of compost with the in place embanked materials. The goal is to achieve a certain level of organics in the mix but still be a stable surface for errant vehicle recovery on the shoulder. The designer had chosen the CSTC product to ensure

stability and the organic content is necessary for the water filtration function. Since the CSTC is not a necessary part of the filtering function, it could be replaced by the existing embanked material, as long as the mix remains stable and recoverable for errant vehicles on the shoulder.

As with the EFD, there was concern about the material that must be wasted and hauled off the project to accommodate the one foot depth of compost mix. Jim Spaid suggested that the spec be revised to allow the contractor to place compost on the surface and till it in to the required depth and specified blend. This would allow the means and methods of placement to be chosen by the contractor and keep the specification focused on achieving the end product that DOE wants, and eliminate the wasting of roadway embankment material. Following further discussion, it was agreed that the best method of measurement and payment was by neat line volume to allow for variations in installation width and depth.

**Environmental Compliance Lead** - Jim Spaid distributed copies of a new GSP to be used on some upcoming NW Region projects. It revises the Erosion Control Lead bid item to include expanded environmental compliance duties for the project. The intent of this provision is for the contractor to provide a full time person who will fill the role. It does not require any more training than already required for the ESC Lead, but does add the requirement of three years experience in construction management including environmental compliance. The EC Lead is to ensure compliance with the contractors Environmental Compliance Plan. This provision is intended to be used with large projects with high risk and/or complexity. It is paid by the day. One comment was to ensure that bidders are aware that this is intended to be a separate, full time person for this position.

**Weed Barrier Mats** - Jim Spaid distributed copies of proposed changes to Std Spec 8-02.3(3) Planting Area Weed Control. The revision clarifies the areas where weed control is required and provides a new specification and detail describing weed barrier mats. There were no comments.

**Section 1-08.7 and 8-01.3(1) Revisions** - Jim Spaid distributed copies of proposed changes to these Standard Specifications that were recommended by the Admin Team. The revisions transfer the responsibility for erosion control costs during a suspension from the contractor to the state. The contractor obligation to protect and maintain all the other areas not used by traffic remains unchanged. There were no comments.

#### **Other Business**

No comments from around the table.

**Next Meeting Dates: – March 6, 2008 and April 17, 2008**